Applications are invited for a postdoctoral researcher at the National Institute of Standards and Technology in cooperation with the University of Delaware. The project is to investigate the properties of fluids (both liquid and gas) in porous media that is crucial for many industrial problems, such as water filtration, protein chromatography, reservoir capacity estimation and productivity of shale gas.

Confinement, at the scale observed in many porous media, can lead to dramatic shifts in physical properties such as gas density, phase transitions, and diffusivity. With the development of many nanoscale processing techniques, it has become increasingly urgent that detailed structural and phase behavior of materials be probed at the length scales from 1 nm- 10 μm. We will develop measurements (theories, experimental methods and devices) that will allow for the detailed characterization of flow properties and phase diagrams of gas, liquid, and protein solutions in robust model porous medium.

The successful candidate must have a Ph.D. in Materials Science, Chemistry, Physics or a related field. Experience with neutron/x-ray scattering on soft matter materials are desirable, but not essential. Salary is in the range from $60,000 to $65,000 depending on qualifications and experiences. The starting date is expected to be in early 2015.

To apply, please send your resume, preferably electronically, including a statement of research interests along with the names of three references to

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